

CLIPPEDIMAGE= JP407062506A  
PAT-NO: JP407062506A  
DOCUMENT-IDENTIFIER: JP 07062506 A  
TITLE: PRODUCTION OF SUPERELASTIC SPRING

PUBN-DATE: March 7, 1995

INVENTOR-INFORMATION:

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APPL-NO: JP05227972

APPL-DATE: August 20, 1993

INT-CL\_(IPC): C22F001/10; B21F035/00 ; C22C019/03

ABSTRACT:

PURPOSE: To develop the excellent superelastic spring having a wide straight elastic region by forming an Ni-Ti superelastic alloy wire by final cold working at a specific reduction ratio to a spring and subjecting this spring to a heat treatment under specific temp. conditions.

CONSTITUTION: The Ni-Ti alloy wire having 50.5 to 51.5 or 49.5 to 51.5 ratio of Ni:Ti by atomic % and contg &le;1% in total of one or &ge;2 kinds among Fe, Co, Cr, V, Pd and Al is worked at 40 to 45% final cold reduction ratio and is then

formed to the spring. This Ni-Ti alloy spring is heat treated at 200 to 450&deg;C in the atm. The excellent superelastic spring having the large threshold shearing strain of the straight elastic region and the wide straight elastic region is thus obtd.

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